

CLAIM AMENDMENTS

Please amend Claims 8, 9, 11, and 13, as follows.

1.-7. (Cancelled)

8. (Currently Amended) A liquid crystal apparatus, comprising:

a liquid crystal device comprising an active matrix substrate having thereon a plurality of signal lines arranged in columns, a plurality of scanning lines arranged in rows, and pixel electrodes each connected via a pixel switch to an intersection of the signal lines and the scanning lines so as to supply picture signals to the pixel electrodes via the signal lines, a counter substrate disposed opposite to the active matrix substrate, and a liquid crystal disposed between the active matrix substrate and the counter substrate, and

drive means for driving the liquid crystal ~~devices~~ device, wherein said drive means ~~including~~ includes:

a first common signal line and a second common signal line for supplying the picture signals to each of the plurality of signal lines,

picture signal-supplying means for supplying picture signals of one polarity to the first common signal line and picture signals of the other polarity to the second common signal line,

~~a first and a second transfer switch provided to~~ first transfer switches
each for connecting a respective column signal line with the first common signal line for selectively supplying one of the picture signals ~~supplied to the first and second common~~

signal lines of one polarity to each column signal line, and second transfer switches each for connecting a respective column signal line with the second common signal line for selectively supplying one of the picture signals of the other polarity to each column signal line, and

column inversion drive means for:

in a first frame, selectively turning on the first transfer switches for odd-numbered column signal lines and the second transfer switches for even-numbered column signal lines, and in a second frame, selectively turning on the second transfer switches for odd-numbered column signal lines and the first transfer switches for even-numbered column signal lines.

9. (Currently Amended) A liquid crystal apparatus, comprising:

a liquid crystal device comprising an active matrix substrate having thereon a plurality of signal lines arranged in columns, a plurality of scanning lines arranged in rows, and pixel electrodes each connected via a pixel switch to an intersection of the signal lines and the scanning lines so as to supply picture signals to the pixel electrodes via the signal lines, a counter substrate disposed opposite to the active matrix substrate, and a liquid crystal disposed between the active matrix substrate and the counter substrate, and

drive means for driving the liquid crystal ~~devices~~ device, wherein said drive means ~~including~~ includes:

a first common signal line and a second common signal line for supplying the picture signals to each of the plurality of signal lines,

picture signal-supplying means for supplying picture signals of one polarity to the first common signal line and picture signals of the other polarity to the second common signal line,

~~a first and a second transfer switch provided to~~ first transfer switches each for connecting a respective column signal line with the first common signal line for selectively supplying one of ~~the~~ picture signals ~~supplied to the first and second common signal lines~~ of one polarity to each column signal line, and second transfer switches each for connecting a respective column signal line with the second common signal line for selectively supplying one of the picture signals of the other polarity to each column signal line, and

dot inversion drive means for:

in a first frame, selectively turning on the first transfer switches for odd-numbered column signal lines and the second transfer switches for even-numbered column signal lines at the time of scanning odd-numbered scanning lines, and selectively turning on the second transfer switches for odd-numbered column signal lines and the first transfer switches for even-numbered column signal lines at the time of scanning even-numbered scanning lines; and

in a second frame, selectively turning on the second transfer switches for odd-numbered column signal lines and the first transfer switches for even-numbered column signal lines at the time of scanning odd-numbered scanning lines, and selectively turning on the first transfer switches for odd-numbered column signal lines and the second transfer switches for even-numbered column signal lines at the time of scanning even-numbered scanning lines.

10. (Original) A liquid crystal apparatus according to Claim 8 or 9, wherein the first transfer switches comprise a transistor of a first conductivity type and the second transfer switches comprise a transistor of a second conductivity type different from the first conductivity type.

11. (Currently Amended) A liquid crystal apparatus according to Claim 8 or 9, wherein the picture ~~signal-supply~~ signal-supplying means includes first and second picture signal-generating means for generating positive-polarity picture signals and negative-polarity picture signals, respectively, supplied to the first and second common signal lines, respectively; the first picture signal generating means generate picture signals in a range between a highest voltage and a central voltage supplied to the pixel electrodes; the second picture signal-generating means generates picture signals in a range between the central voltage and a lowest voltage supplied to the pixel electrodes; the first and second picture signal-garnering means are operated at different supply voltages; the supply voltages for the first picture signal-generating means are set to be the highest voltage + α and the central voltage - α ; and the supply voltages for the second picture signal-generating means are set to be the central voltage + α and the lowest voltage - α , wherein α denotes α voltage lowering margin due to an internal resistance in the picture signal-generating means.

12. (Original) A liquid crystal apparatus according to Claim 11, wherein α is in the range of 0 volt to 1 volt.

13. (Currently Amended) A liquid crystal apparatus according to Claim 8, wherein the first and second transfer switches and the picture ~~signal-supply~~ signal-supplying means are disposed on a common substrate with the active matrix substrate.

14. (Original) A liquid crystal apparatus according to Claim 13, wherein the active matrix substrate comprises an insulating substrate.

15. (Original) A liquid crystal apparatus according to Claim 13, wherein the active matrix substrate comprises a single crystal substrate.